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Introduction to constructive quantum field theory

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INTRODUCTION TO CONSTRUCTIVE QUANTUM  
FIELD THEORY

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A survey was given on recent results about the Radon-Nikodym Property (RNP) for subsets of Banach spaces. The second talk was a presentation of part of the proof of

Theorem: Let  $C$  be a closed, bounded and convex subset of a Banach space  $X$ . Then,  $C$  has the RNP if and only if for every continuous and bounded real-valued function  $f$  on  $C$  and every positive number  $\beta$  there exists an  $x^*$  in  $X^*$ ,  $\|x^*\| < \beta$ , such that  $f+x^*$  attains its supremum on  $C$ .